

Abstract

A catheter comprising an elongate tubular member having a proximal end and a distal end, and a deflectable tip at the distal end of the elongate tubular member. The deflectable tip comprises a first helical coil having a first diameter and a second helical coil having a second diameter, the first diameter being larger than the second diameter. The first and second helical coils are arranged in the manner of a double helix. When viewed in cross-section, the first helical coil and the second helical coil are aligned at a first point on a circumference of each coil and misaligned at a second point on the circumference of each coil, where the second point is approximately 180 degrees from the first point. In certain embodiments the catheter further includes a dilatation balloon. Methods of use for crossing a chronic total occlusion are also described.

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